

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q80959

Kazuki NAKANISHI, et al

Appln. No.: National Stage of PCT/JP2005/006719

Confirmation No.: Unknown

Group Art Unit: Unknown

Filed: September 28, 2006

Examiner: Unknown

For: ANALYTICAL PRETREATMENT COLUMN

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

**MAIL STOP AMENDMENT**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after

INFORMATION DISCLOSURE STATEMENT

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filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant encloses herewith a copy of a Communication from a foreign patent office in a counterpart application citing such documents (International Search Report for PCT/JP2005/006719 and Written Opinion of the International Searching Authority dated August 29, 2005), together with an English-language version (if not already included) of at least that portion of the Communication indicating the degree of relevance found by the foreign patent office.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant submits the following explanations: English language abstracts, submitted herewith, constitute concise statements of relevance for Japanese Patent Application Publication Nos. 59-147606, 4-334546, 2002-362918, 2003-75420, 11-268923, 5-23565, and 2002-22721, also for “Environmental Management Bureau Administration Division Countermeasures-Against-Indoor Dioxin”, “10<sup>th</sup> Symposium on Environmental Chemistry Program”, and “Monolithic Silica Column for High-Efficiency”.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

10/594521

IAP01 Rec'd PCT/PTO 28 SEP 2006

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The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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WASHINGTON OFFICE

23373

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Date: September 28, 2006

Substitute for Form 1449 A & B/PTO

**INFORMATION DISCLOSURE  
 STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

Application Number	National Stage of PCT/JP2005/006719
Confirmation Number	Unknown
Filing Date	September 28, 2006
First Named Inventor	Kazuki NAKANISHI
Art Unit	Unknown
Examiner Name	
Attorney Docket Number	Q80959

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US 2003/0230524	A1	12/18/2003	NAOHIRO SOGA, ET AL.
		US 2004/0002081	A1	01/01/2004	JOCHEN URTHALER, ET AL
		US 5,104,632	A	04/14/1992	DAVID K. DOUDEN, ET AL
		US			
		US			
		US			
		US			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
		WO	99/39816	A1	08/12/1999	INDUSTRIAL SCIENCE & TECHNOLOGY NETWORK, INC.	
		JP	59-147606	A	08/24/1984	JAPAN GASOLINE	Abstract
		JP	4-334546	A	11/20/1992	MINNESOTA MINING & MFG.	Abstract
		JP	2002-362918	A	12/18/2002	SOGA NAOHIRO, NAKANISHI KAZUKI, TANAKA NOBUO, and KYOTO MONOTECH KK	Abstract
		JP	2003-75420	A	03/12/2003	NAKANISHI KAZUKI and KYOTO MONOTECH KK	Abstract
		JP	11-268923	A	10/05/1999	MITSUBISHI CHEM. CORP.	Abstract
		JP	5-23565	A	02/02/1993	OSAKA GAS CO. LTD. and LIQUID GAS KK	Abstract
		JP	2002-22721	A	01/23/2002	KANTO KAGAKU	Abstract

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		THE MINISTRY OF ENVIRONMENT, "ENVIRONMENTAL MANAGEMENT BUREAU ADMINISTRATION DIVISION COUNTERMEASURES-AGAINST-INDOOR DIOXIN", <a href="http://www.env.go.jp/air/osenv/manual/index.html">http://www.env.go.jp/air/osenv/manual/index.html</a> , September 8, 2002 HEISEI 14 SEARCH, PAGES 1-55	Abstract
		T. AKESHI NAKANO, ET AL, "10 <sup>th</sup> SYMPOSIUM ON ENVIRONMENTAL CHEMISTRY PROGRAM", May 23, 2001 HEISEI 13, PAGES 472-473	

Examiner Signature

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B/PTO  <p style="text-align: center;"><b><u>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</u></b></p> <p style="text-align: center;">(use as many sheets as necessary)</p>				<i>Complete if Known</i>	
		Application Number	National Stage of PCT/JP2005/006719		
		Confirmation Number	Unknown		
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		First Named Inventor	Kazuki NAKANISHI		
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Sheet	2	of	2		

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		US			
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		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			

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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		TAKESHI NAKANO, ET AL, "10 <sup>th</sup> SYMPOSIUM ON ENVIRONMENTAL CHEMISTRY PROGRAM", May 23, 2001 HEISEI 13, PAGES 582-583	Abstract
		NORIO ISHIZUKA, ET AL, "MONOLITHIC SILICA COLUMN FOR HIGH-EFFICIENCY CHROMATOGRAPHIC SEPARATION", HYOMEN, VOL. 39, NO. 8, 2001, PAGES 297-307	Abstract
		KAZUKI NAKANISHI, "PORE STRUCTURE CONTROL OF SILICA GELS BASED ON PHASE SEPARATION", JOURNAL OF POROUS MATERIALS, VOL. 4, 1997, PAGES 67-112	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.